

NEW SPECIES AND A NEW COMBINATION OF MEXICAN THEACEAE

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The new species and combination published in this article will be treated in relation to all the taxa of Mexican Theaceae in a monograph on the Theaceae of Mexico that is presently in preparation.

Cleyera velutina Bartholomew, sp. nov.

Arbor magna 10-20 m alta. Ramunculi velutini. Petiolus velutinus, ca. 5 mm longus, ca. 1.5-2 mm latus; lamina coriacea, elliptica, ca. 8-12 cm longa, ca. 3.5-5 cm lata, apice acuto, base obtusa, marginibus integris, supra glabrata, subter velutina. Flores axillares; pedicellus velutinus, ca. 1 cm longus, diametro 1.5-2 mm; bractea 2, velutinae, 2-4 mm longae, ca. 2 mm latae; sepala 5, velutina, ca. 4 mm longa, 3-4 mm lata.

Species a *C. integrifoliae* affinis sed pedicellis, bracteis, sepalis, ramunculis, petiolis et foliis subter velutinis.

Type: Mexico, Guerrero, 5-10 km above and SW of Filo del Caballo along road to Puerto El Gallo, 2440 m, 19-X-1984, D.E. Breedlove 61902 (holotype CAS; isotypes GH, K, MEXU, MICH).

Distribution: Mexico (Guerrero).

Representative additional specimens. Guerrero: N slope of Cerro Alquitrán, 10-14 km W of Highway 95 and Mazatlán, 2250-2450 m, 6-XII-1966, W.R. Anderson & C.W. Laskowski 4435 (ENCB, MICH); Mpio. Tlacoapa, 53 km S of Tlapa on road to Malinaltepec, 2600 m, 26-VI-1982, E. Martinez S. 1109 (CAS); Sierra Madre del Sur, along the Milpillas-Atoyac road via Puerto del Gallo, 2740 m, 16-X-1975, J.L. Reveal et al. 4219 (CAS, GH, MARY, MEXU, MO, K, US); 4.8 km W of Omiltani, 2514 m, 11-VI-1953, C.M. Rowell, Jr. 3257 (MICH); Mpio. Chichihualco, 5 km W of Camotla, 2600 m, 8-IV-1963, J. Rzedowski 16420 (MICH).

Temstroemia dentisepala Bartholomew, sp. nov.

Frutex vel arbor 6-8(-15) m alta. Petiolus ca. 5 mm longus, 1.5 mm latus; lamina, glabra, coriacea, oblanceolata vel anguste obovata, (8-)10-12 cm longa, (2-)3-4 cm lata, apice acuto vel obtuso, base attenuata, marginibus integris. Flores axillares; pedicellus 2-3(-4) cm longus; bractea 2, 5 mm longae, base 2 mm lata; sepala 5, 8-10 mm longa, 5-6 mm lata, apice acuto vel obtuso, base cordata, marginibus denticulatis, dentibus nigris 0.3 mm longis.

Species *T. lineatae* affinis, a qua differt sepalis denticulatis et foliis latoribus.

Type: Mexico, Nayarit, Mpio. Tepic, N side of Cerro San Juan, 1350 m, 4-X-1985, B. Bartholomew et al. 2628 (holotype CAS; isotypes GH, MEXU, MICH, NY).

Distribution: Mexico (Jalisco, Nayarit, Oaxaca).

Representative additional specimens. Jalisco: Mpio. Autlán de Navarro, Logging road from El Chante to El Guisar in the Sierra de Manantlán, 2160 m, 17-VIII-1980, D.E. Breedlove & F. Almeda 45631 (CAS); Sierra de Manantlán (30-35 km SE of Autlán),

precipitous seaward-facing slopes 1-4 km below the summit called La Cubre, 1500-1900 m, 22-23-III-1965, *R. McVaugh 23182* (ENCB, MICH); Mpio. Cuautitlán, Sierra de Manantlán, 1500 m, 10-1-1980, *L.M. Villarreal de Puga 11550* (ENCB, IBUG).

Nayarit: Road to Cuarenteno off the road to Jalcocotán, 1420 m, 16-II-1970, *F. Boutin & M. Kimmach 3262* (CAS, HNT).

Oaxaca: 24 km N of San Gabriel along road from Puerto Escondido to Oaxaca, 1830 m, 9-V-1965, *D.E. Breedlove 9899* (CAS, ENCB); Mpio. Juquila, 4 km S of Lachao, km 183 on road from Oaxaca to Puerto Escondido, 1850 m, 14-IV-1965, *J. Rzedowski 19599* (ENCB).

Temstroemia huasteca Bartholomew, sp. nov.

Arbor parva 6-10 m alta. Petiolus 8-10 mm longus; lamina angusta elliptica, 11-13 cm longa, 2.5-4 cm lata, apice acuto vel leviter acuminato, base acuta, marginibus integris. Flores terminales, 3-5(-10), fasciculati; pedicellus 3-4.5(-5.5) cm longus, diametro ca. 1 mm; bractae 2, roseae, oppositae, 3-4 mm longae, 2 mm latae, apice acuto; sepala 5, rosea, 8-12 mm longa, 6-10 mm lata, apice acuto, base cordata, marginibus atroroseis integris vel base pausa dentata; petala alba set apice luteo, 7-8 mm longo, 4-5 mm lato, apice acuto, base connata.

Species a *T. hemsleyi* affinis sed floribus terminalibus fasciculatis erectis.

Type: Mexico, Hidalgo, Mpio. Metztlitlán, 0.6 km S of Alumbres on road to Zacualtipán, *B. Bartholomew 4035* (holotype CAS; isotypes C, CHAPA, ENCB, F, G, GH, K, MEXU, MICH, MO, NY, TEX, US, WIS).

Distribution: Mexico (Hidalgo, Puebla, Veracruz, Queretaro).

Representative additional specimens. Hidalgo: Mpio. Tianguistengo, 10 km W of Tianguistengo, (Tepeoco), 2100 m, 25-IV-1981, *R. Hernández M. et al. 5817* (CAS, ENCB, MEXU); Mpio. Juarez Hidalgo, Itzacoyotla, 15 km N of Juarez Hidalgo, 1800 m, 10-V-1981, *R. Hernández M. et al. 6107* (CAS, ENCB, MEXU); Mpio. Tlanchinol, 1 km SE of Unidad Habitacional de Otongo, 900 m, 25-IX-1971, *J. Rzedowski 28673* (ENCB); Cerro de Tutotepec, 1800 m, 19-III-1946, *A.J. Sharp 46198* (A, MEXU, TENN).

Puebla: Mpio. Tlatlauquitepec, Chachalcin, 1500 m, 8-VII-1983, *E. Ventura V. 1063* (ENCB).

Queretaro: Mpio. Tancoyol, La Parada, 1400 m, 16-IV-1969, *H. Puig 4510* (ENCB).

Veracruz: Mpio. Alto Lucero, Mata Verde between Rancho Nuevo and Tierra Blanca, 1200 m, 9-IV-1981, *G. Castillo C. & F. Vazquez B. 1462* (F); Mpio. Juchique de Ferrer, Cerro de Villa Rica, near Mundo Nuevo, 1600 m, 7-V-1981, *G. Castillo C. et al. 1816* (F); Mpio. Yecuatla, Barranca del Sedral towards the mountains, 1400 m, 26-V-1981, *C. Gutierrez B. 135* (F); Mpio. Huayacocotla, Between Ocotes and Agua de la Calabaza, 14 km NE of Huayacocotla, 1670 m, 23-IV-1981, *L.G. Juarez & F. Vazquez 57* (F); Mpio. Atzalán, Tatzayanala, 1400 m, 23-V-1970, *F. Ventura A. 1142* (DS, ENCB, F, MICH, MO, NY).

Temstroemia lineata subsp. *chalicophila* (Loes.) Bartholomew, comb. nov.

Temstroemia chalicophila Loes., Bull. Herb. Boissier ser. 2, 3: 213. 1903. Type: Mexico, Chiapas, above Huitztan, 10-III-1896 *C. Seler & E. Seler 2276* (holotype B (destroyed); lectotype GH here designated).

Distribution: Mexico (Chiapas), Honduras.

Temstroemia lineata subsp. *chalicophila* is distributionally disjunct from *T. lineata* subsp. *lineata* which occurs in the Mexican states of Guerrero, Jalisco, México, Michoacán, Morelos and Sinaloa. The two subspecies are very similar but *T. lineata* subsp. *chalicophila* consistently has impressed lateral veins on the upper leaf surfaces.